



# SEQUENCE LISTING

<110> Allen, Danny  
Farrar, Gwennyth Jane

<120> Compositions and Methods for Tissue Specific or Inducible Inhibition of Gene Expression

<130> MUR-005

<140> US 10/655,570

<141> 2003-09-04

<150> US 60/408,210

<151> 2002-09-04

<160> 15

<170> PatentIn version 3.1

<210> 1

<211> 196

<212> DNA

<213> Artificial Sequence

<220>

<223> RNAi sequence R2D2egfp

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cggtaccgtc caaccactac ctgagcacc agttcaagag actgggtgct caggtagtgg 120

ttgtcgacgg atcatgatcc gtctgatga gtccgtgagg acgaaacaac cacgaattca 180

agcttgacct ctcgac 196

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<211> 196

<212> DNA

<213> Artificial Sequence

<220>

<223> RNAi sequence R2D2xera

<400> 2

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cggtaccgtc cggcaagctg accctgaagt tcttcaagag agaacttcag ggtagccttg 120

ccgtagacgg atcatgatcc gtctgatga gtccgtgagg acgaaacggc aaggaattca 180

agcttgacct ctcgac 196

<210> 3

<211> 190

<212> DNA

<213> Artificial Sequence

<220>  
 <223> RNAi sequence ~~R2D2~~Non

<400> 3  
 ggctagctag ctctagagga tcccggagaa ctgatgagtc cgtgaggacg aaacgggtacc 60  
 cggtaccgtc ttctccgaac gtgtcacgtt tcaagagaac gtgacacgtt cggagaattg 120  
 acggatcatg atccgtcctg atgagtcctg gaggacgaaa ttctccggaa ttcaagcttg 180  
 acctctcgac 190

<210> 4  
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<220>  
 <223> PCR amplification primer R2D2For

<400> 4  
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<210> 5  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR amplification primer R2D2Rev

<400> 5  
 gtcgagaggt caagcttgaa t 21

<210> 6  
 <211> 107  
 <212> DNA  
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<220>  
 <223> EGFP targeting construct R2D2xer1

<400> 6  
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 cggtaccgtc cggcaagctg accctgaagt tcttcaagag agaactt 107

<210> 7  
 <211> 110  
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<220>  
 <223> EGFP targeting construct R2D2xer2

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 catgatccgt ctacggcaag ctgaccctga agttctctct tgaagaactt 110

<210> 8  
 <211> 107  
 <212> DNA  
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<220>  
 <223> EGFP targeting construct R2D2egfp1

<400> 8  
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 cggtaccgtc caaccactac ctgagcaccc agttcaagag actgggt 107

<210> 9  
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<220>  
 <223> EGFP targeting construct R2D2egfp2

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 catgatccgt cgacaaccac tacctgagca cccagtctct tgaactgggt 110

<210> 10  
 <211> 104  
 <212> DNA  
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<220>  
 <223> Non-targeting construct R2D2non1

<400> 10  
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 cggtaccgtc ttctccgaac gtgtcacgtt tcaagagaac gtga 104

<210> 11  
 <211> 107  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Non-targeting construct R2D2non2

<400> 11  
 gtcgagaggt caagcttgaa ttccggagaa tttcgtcctc acggactcat caggacggat 60  
 catgatccgt caattctccg aacgtgtcac gttctcttga aacgtga 107

<210> 12  
<211> 423  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Sequence from the pCDNA3.1 vector containing 5' and 3' cis-acting  
ribozymes with RNAi targeting EGFP

<220>  
<221> misc\_feature  
<222> (9)..(11)  
<223> N = A, G, C, T

<220>  
<221> misc\_feature  
<222> (25)..(25)  
<223> N = A, G, C, T

<220>  
<221> misc\_feature  
<222> (25)..(25)  
<223> N = A, G, C, T

<220>  
<221> misc\_feature  
<222> (256)..(256)  
<223> N = A, G, C, T

<220>  
<221> misc\_feature  
<222> (256)..(256)  
<223> N = A, G, C, T

<220>  
<221> misc\_feature  
<222> (260)..(260)  
<223> N = A, G, C, T

<220>  
<221> misc\_feature  
<222> (417)..(417)  
<223> N = A, G, C, T

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gatgagtccg tgaggacgaa acggtacccg gtaccgtctt ctccgaacgt gtcacgtttc 120  
aagagaacgt gacacgttcg gagaattgac ggatcatgat ccgtcctgat gagtccgtga 180

ggacgaaatt ctccggaatt caagcttaag tttaaaccgc tgatcagcct cgactgtgcc 240  
 ttctagtgtgc cagcctctctn ttgtttgccc ctcccccggtg ccttccttga ccctggaagg 300  
 tgccactccc actgtccttt cctaataaaa tgaggaaatt gcatcgcatt gtctgagtag 360  
 gtgtcattct attctggggg gtgggggtggg gcaggacagc aagggggagg attgggnaag 420  
 aca 423

<210> 13  
 <211> 446  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Sequence from the pcDNA3.1 vector carrying 5' and 3' cis-acting r  
 ibozymes and the non-targeting RNAi control sequence

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> N = G, A, T, C

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> N = G, A, T, C

<220>  
 <221> misc\_feature  
 <222> (15)..(16)  
 <223> N = G, A, T, C

<220>  
 <221> misc\_feature  
 <222> (19)..(20)  
 <223> N = G, A, T, C

<220>  
 <221> misc\_feature  
 <222> (29)..(31)  
 <223> N = G, A, T, C

<220>  
 <221> misc\_feature  
 <222> (33)..(33)  
 <223> N = G, A, T, C

<220>  
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 <222> (40)..(40)  
 <223> N = G, A, T, C

<220>  
 <221> misc\_feature  
 <222> (42)..(42)  
 <223> N = G, A, T, C

<220>  
 <221> misc\_feature  
 <222> (47)..(47)  
 <223> N = G, A, T, C

<220>  
 <221> misc\_feature  
 <222> (285)..(287)  
 <223> N = G, A, T, C

<220>  
 <221> misc\_feature  
 <222> (289)..(289)  
 <223> N = G, A, T, C

<400> 13  
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 tagctctaga aggatccgtg ggttgctgat gaagtcgtg aaggacgaaa cggtagccgg 120  
 taccgtccaa ccactacctg agcaccagct tcaagagact ggggtgctcag gtagtggttg 180  
 tcgacggatc atgatccgtc ctgatgagtc cgtgaggacg aaacaaccac gaattcaagc 240  
 ttaagttaa accgctgatc agcctcgact gtgccttcta gttgnnngnc atctgttggt 300  
 tgcccctccc ccgtgccttc cttgacctg gaagggtcca ctcccactgt cttttcctaa 360  
 taaaatgagg aaattgcac gcattgtctg aagtaggtgt cattctattc tgggggggtgg 420  
 ggtggggcaa ggacagcaag ggggga 446

<210> 14  
 <211> 395  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Sequence from pcDNA3.1 with the H1 promoter driving expression of  
 RNAi targeting EGFP

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> N = G, A, T, C

<220>

<221> misc\_feature  
 <222> (32)..(32)  
 <223> N = G, A, T, C

<220>  
 <221> misc\_feature  
 <222> (339)..(339)  
 <223> N = G, A, T, C

<400> 14  
 tccnattacc ctccctaaag ggacaaaagc tnggagctcc accgcggtgg cggccgctct 60  
 agaactagtg gatcccccg gctgcaggaa ttcgaacgct gacgttcac aaccgcgtcc 120  
 aaggaatcgc gggcccagtg tcactaggcg ggaacaccca gtgcgcgtgc gccctggcag 180  
 gaagatggct gtgagggaca ggggagtggc gccctgcaat atttgcattg cgctatgtgt 240  
 tctgggaaat caccataaac gtgaaatgtc tttggatttg ggaatcttat aagttctgta 300  
 tgagaccaca gatccccaac cactacctga gcaccagnt caagagactg ggtgctcaag 360  
 tagtggtttt tttggaaaac ttatcgatac cgtct 395

<210> 15  
 <211> 352  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Sequence from the pcDNA3.1 vector carrying sequence for the rat albumin promoter

<220>  
 <221> misc\_feature  
 <222> (17)..(18)  
 <223> N = G, A, T, C

<220>  
 <221> misc\_feature  
 <222> (32)..(32)  
 <223> N = G, A, T, C

<220>  
 <221> misc\_feature  
 <222> (270)..(271)  
 <223> N = G, A, T, C

<400> 15  
 ctggcttcga attatcnct cctataggga gnccaagctg gctcgcgttt aacgggccct 60  
 ctagactcga gcggccgctc tagcttcctt agcatgacgt tccacttttt tctaagggtg 120  
 agcttacttc tttgatttga tcttttgtga aacttttga aattacccat cttcctaagc 180

ttctgcttct ctcagttttc tgcttgctca ttccattttc cagctgacct gccccctacc 240  
aacattgctc cacaagcaca aattcatccn nagaaaataa attctaagtt ttatagttgt 300  
ttggatcgca taggtagcta aagaggtggc aaccacaca tccttaggca tg 352